



1

SEQUENCE LISTING

<110> DIETZ, HARRY C.  
ARKING, DAN E.

<120> DETECTION OF A PREDISPOSITION FOR THE DEVELOPMENT OF  
CORONARY ARTERY DISEASE

<130> 60277(71699)

<140> 10/714,470

<141> 2003-11-13

<150> 60/425,865

<151> 2002-11-13

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<170> PatentIn Ver. 3.2

<210> 1

<211> 549

<212> PRT

<213> Homo sapiens

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Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly  
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Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp  
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Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His  
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Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly  
100 105 110

Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser  
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Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val  
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Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly  
145 150 155 160

Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu  
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Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr  
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 His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala  
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 Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe  
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 Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro  
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 Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro  
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 Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn  
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<213> Homo sapiens

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Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly  
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Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp  
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Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His  
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Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly  
 100 105 110

Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser  
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Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val  
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Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly  
 145 150 155 160

Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu  
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Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr  
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His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala  
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 Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe  
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 <213> Homo sapiens

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 His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala  
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 Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe  
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 Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro  
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 Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly  
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 Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu  
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 Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro  
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 Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn  
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 Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu  
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<210> 4  
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 35 40 45  
 Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly  
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Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp  
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 Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His  
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 Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly  
 100 105 110  
 Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser  
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 Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val  
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 Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly  
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 Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu  
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 Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr  
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 His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Gly Trp Ala  
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 Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe  
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 Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro  
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 Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly  
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 Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu  
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 Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro  
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 Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn  
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 Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu  
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 Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp  
 325 330 335  
 Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Val  
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 Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala  
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Leu	Ser	Phe	Gly	Pro	Thr	Leu	Ser	Phe	Gln	Leu	Leu	Asp	Pro	His	Met	370	375	380	
Lys	Phe	Arg	Gln	Leu	Glu	Ser	Pro	Asn	Leu	Arg	Gln	Leu	Leu	Ser	Trp	385	390	395	400
Ile	Asp	Leu	Glu	Phe	Asn	His	Pro	Gln	Ile	Phe	Ile	Val	Glu	Asn	Gly	405	410	415	
Trp	Phe	Val	Ser	Gly	Thr	Thr	Lys	Arg	Asp	Asp	Ala	Lys	Tyr	Met	Tyr	420	425	430	
Tyr	Leu	Lys	Lys	Phe	Ile	Met	Glu	Thr	Leu	Lys	Ala	Ile	Lys	Leu	Asp	435	440	445	
Gly	Val	Asp	Val	Ile	Gly	Tyr	Thr	Ala	Trp	Ser	Leu	Met	Asp	Gly	Phe	450	455	460	
Glu	Trp	His	Arg	Gly	Tyr	Ser	Ile	Arg	Arg	Gly	Leu	Phe	Tyr	Val	Asp	465	470	475	480
Phe	Leu	Ser	Gln	Asp	Lys	Met	Leu	Leu	Pro	Lys	Ser	Ser	Ala	Leu	Phe	485	490	495	
Tyr	Gln	Lys	Leu	Ile	Glu	Lys	Asn	Gly	Phe	Pro	Pro	Leu	Pro	Glu	Asn	500	505	510	
Gln	Pro	Leu	Glu	Gly	Thr	Phe	Pro	Cys	Asp	Phe	Ala	Trp	Gly	Val	Val	515	520	525	
Asp	Asn	Tyr	Ile	Gln	Val	Asp	Thr	Thr	Leu	Ser	Gln	Phe	Thr	Asp	Leu	530	535	540	
Asn	Val	Tyr	Leu	Trp	Asp	Val	His	His	Ser	Lys	Arg	Leu	Ile	Lys	Val	545	550	555	560
Asp	Gly	Val	Val	Thr	Lys	Lys	Arg	Lys	Ser	Tyr	Cys	Val	Asp	Phe	Ala	565	570	575	
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Phe	Arg	Phe	Ser	Leu	Asp	Trp	Ala	Leu	Ile	Leu	Pro	Leu	Gly	Asn	Gln	595	600	605	
Ser	Gln	Val	Asn	His	Thr	Ile	Leu	Gln	Tyr	Tyr	Arg	Cys	Met	Ala	Ser	610	615	620	
Glu	Leu	Val	Arg	Val	Asn	Ile	Thr	Pro	Val	Val	Ala	Leu	Trp	Gln	Pro	625	630	635	640
Met	Ala	Pro	Asn	Gln	Gly	Leu	Pro	Arg	Leu	Leu	Ala	Arg	Gln	Gly	Ala	645	650	655	
Trp	Glu	Asn	Pro	Tyr	Thr	Ala	Leu	Ala	Phe	Ala	Glu	Tyr	Ala	Arg	Leu	660	665	670	

Cys	Phe	Gln	Glu	Leu	Gly	His	His	Val	Lys	Leu	Trp	Ile	Thr	Met	Asn		
		675					680					685					
Glu	Pro	Tyr	Thr	Arg	Asn	Met	Thr	Tyr	Ser	Ala	Gly	His	Asn	Leu	Leu		
	690					695					700						
Lys	Ala	His	Ala	Leu	Ala	Trp	His	Val	Tyr	Asn	Glu	Lys	Phe	Arg	His		
705					710					715					720		
Ala	Gln	Asn	Gly	Lys	Ile	Ser	Ile	Ala	Leu	Gln	Ala	Asp	Trp	Ile	Glu		
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Pro	Ala	Cys	Pro	Phe	Ser	Gln	Lys	Asp	Lys	Glu	Val	Ala	Glu	Arg	Val		
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Leu	Glu	Phe	Asp	Ile	Gly	Trp	Leu	Ala	Glu	Pro	Ile	Phe	Gly	Ser	Gly		
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Asp	Tyr	Pro	Trp	Val	Met	Arg	Asp	Trp	Leu	Asn	Gln	Arg	Asn	Asn	Phe		
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785					790				795						800		
Phe	Asp	Phe	Leu	Ala	Leu	Ser	His	Tyr	Thr	Thr	Ile	Leu	Val	Asp	Ser		
			805						810					815			
Glu	Lys	Glu	Asp	Pro	Ile	Lys	Tyr	Asn	Asp	Tyr	Leu	Glu	Val	Gln	Glu		
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Met	Thr	Asp	Ile	Thr	Trp	Leu	Asn	Ser	Pro	Ser	Gln	Val	Ala	Val	Val		
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Pro	Trp	Gly	Leu	Arg	Lys	Val	Leu	Asn	Trp	Leu	Lys	Phe	Lys	Tyr	Gly		
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Ala	Glu	Asp	Asp	Gln	Leu	Arg	Val	Tyr	Tyr	Met	Gln	Asn	Tyr	Ile	Asn		
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Glu	Ala	Leu	Lys	Ala	His	Ile	Leu	Asp	Gly	Ile	Asn	Leu	Cys	Gly	Tyr		
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Arg	Tyr	Ala	Ala	Asp	Gln	Phe	Glu	Pro	Lys	Ala	Ser	Met	Lys	His	Tyr		
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Arg	Lys	Ile	Ile	Asp	Ser	Asn	Gly	Phe	Pro	Gly	Pro	Glu	Thr	Leu	Glu		
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Arg	Phe	Cys	Pro	Glu	Glu	Phe	Thr	Val	Cys	Thr	Glu	Cys	Ser	Phe	Phe		
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His Thr Arg Lys Ser Leu Leu Ala Phe Ile Ala Phe Leu Phe Phe Ala  
                   980                                  985                                  990

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Arg Ser Tyr Lys  
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           primer

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